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PIPE INSPECTION SYSTEM



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Brief Introduction

Shanghai Kingstronic is the leading supplier specializing in pipe inspection system for more than 10 years. Our products lines include pipe inspection camera, pipe inspection robot, manhole camera, chimney camera, borehole camera, industrial endoscope, pipe locator and so on.

Kingstronic is in the group of CEC (China Electronics Corporation), which is one of the top largest 500 in the world. We have partners in North America, Europe, Asia and Latin America.

Our brand FORBEST is well-known and trustworthy in North America; we have the largest market share in past years. CECFORBEST is the first brand in pipe inspection camera in China.

We are famous for the strongest production ability and strict QC system. We have our own R&D department and manufacture facility, welcome to place OEM and ODM orders to us.



CECFORBEST.COM

Model :
FB310
FB311

Portable HD Pushrod Camera Systems

- Compact design & portable 20m cable (30/40 m optional)
- Camera Ø23 mm (6/12/25/26mm optional) suitable for narrow pipe
- DVR Function (photo & video) , MIC function (FB311 only)
- Sapphire crystal lens and waterproof: IP68



FB310

FB311



Cable drum

- Ø5.2mm fiber Glass cable
- Cable length : 20m (30m/40m optional)
- Stainless steel drum
- Electric meter counter optional
- Rubber handle
- Diameter : 32.5cm
- Skid (optional)



Battery

- DC 12V/4400 mAh Li-Polymer,
- Working time≥ 4 hours
- LED battery capacity display
- Charging function, LED charge indicator
- AC90~240V 50/60Hz
- Fuse protection



Camera

- 1/4" sharp CCD sensor (CMOS optional) 480TVL resolutions
- View angle : 90°/120°
- Diameter: 23mm (6mm/ 12mm/ 25mm/ 26mm Self-leveling optional) L:60mm
- 512Hz transmitter (optional)
- 12 pieces LED



Monitor

- 7" digital screen with sunshade (10" optional)
- Resolution : 7" ---800X480(16:9) 10" ---800X600(4:3)
- DVR & MIC function (FB311 only)
- Storage: USB/TF card (FB311 only)
- Re-play function
- Operating Temperature Range : 0°C ~ 60°C



Case

- FB310**
- Black aluminum case
 - Case size : 460×350 ×180mm
- FB311**
- ABS Plastic(yellow/green/black optional)
 - Case size : 511×430 ×180mm

Model :
FB320

Roller-wheels HD Pushrod Camera Systems

- Portable roller-wheel 60m pushrod cable (90m/120m optional)
- 10" high resolution screen
- Self-levelling camera for upright image
- Mechanical meter counter
- DVR Function (photo & video), MIC function
- Sapphire crystal lens and waterproof: IP68



Cable drum

- Ø9mm fiber Glass cable
- Cable length: 60m (90m / 120m optional)
- Stainless steel, roller wheels
- Mechanical Meter counter
- Size : L770×H850×W360 mm
- weight: 25kg



Battery

- DC 12V/4400 mAh Li-Polymer,
- Working time ≥ 4 hours
- LED battery capacity display
- Charging function, LED charge indicator
- AC90~240V 50/60Hz
- Fuse protection



Camera

- 1/4" sharp CCD sensor (CMOS optional) 480TVL resolutions
- View angle : 90°/120°
- Diameter: 50mm, L: 110mm (26mm/40mm optional)
- Self-levelling camera for upright image
- 512Hz transmitter (optional)
- 18 pieces LED



Monitor

- 10" digital screen with sunshade (7" optional)
- Resolution : 800X600(4:3)
- DVR & MIC function
- Storage: USB/TF card
- Re-play function
- Operating Temperature Range: 0°C ~ 60°C



Case

- ABS Plastic case (yellow/green/black optional)
- Case size : 511×430×180 mm

Model :
FB330

Minilite HD Pushrod Camera Systems

- Portable 60m pushrod cable
- 10" high resolution screen
- Self-levelling camera for upright image
- Electric meter counter
- DVR Function (photo & video), MIC function
- Sapphire crystal lens and waterproof: IP68



Cable drum

- Ø8mm fiber Glass cable
- Cable length: 60m
- Stainless steel drum
- Electric meter counter optional
- Size : L660×H530×W250 mm
- weight: 12.65kg



Battery

- DC 12V/4400 mAh Li-Polymer,
- Working time ≥ 4 hours
- LED battery capacity display
- Charging function, LED charge indicator
- AC90~240V 50/60Hz
- Fuse protection



Camera

- 1/4" sharp CCD sensor (CMOS optional) 480TVL resolutions
- View angle : 90°/120°
- Diameter: 40mm, L: 110mm (26mm/50mm optional)
- Self-levelling camera for upright image
- 512Hz transmitter (optional)
- 18 pieces LED



Monitor

- 10" digital screen with sunshade (7" optional)
- Resolution : 800X600(4:3)
- DVR & MIC function
- Storage: USB/TF card
- Re-play function
- Operating Temperature Range: 0°C ~ 60°C



Case

- ABS Plastic case (yellow/green/black optional)
- Case size : 511×430×180 mm

Model :
FB350

Disk-type & HD Pushrod Camera Systems

- Portable Disk-type cable drum
- Camera diameter: 23/25/26/40mm optional
- Electric meter counter
- DVR Function (photo & video), MIC function
- Sapphire crystal lens and waterproof: IP68



Cable drum

- Ø8mm fiber Glass cable
- Cable length : 45m/60m
- Metal disk-type cable drum
- Electric meter counter
- Size : Ø560 mm , H 170mm
- Weight: 6.7kg



Battery

- DC 12V/4400 mAh Li-Polymer,
- Working time ≥ 4 hours
- LED battery capacity display
- Charging function, LED charge indicator
- AC90~240V 50/60Hz
- Fuse protection



Camera

- 1/4" sharp CMOS sensor (CCD optional) 480TVL resolutions
- View angle : 90°
- Metal / plastic camera (optional)
- Diameter: 23mm (25/26/40mm optional) L:60mm
- 512Hz transmitter (optional)
- 12 pieces LED



Monitor

- 10" digital screen
- Resolution : 800×600 (4:3)
- DVR & MIC function
- Storage: USB/TF card
- Re-play function
- Operating Temperature Range : 0°C ~ 60°C



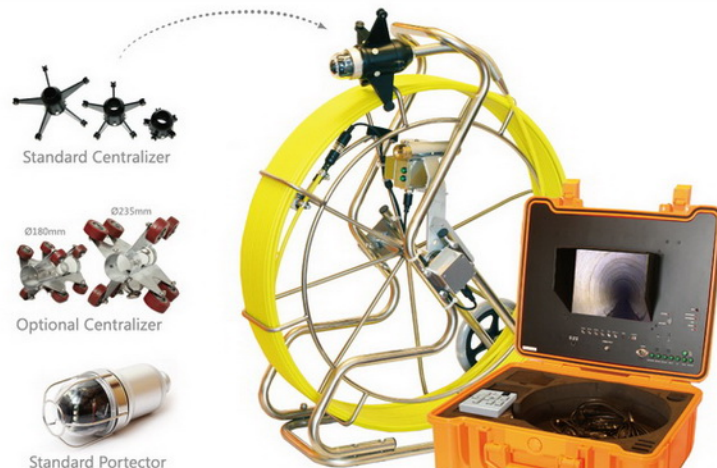
Case

- ABS Plastic case (yellow/green/black optional)
- Case size : 511×430 ×180 mm

Model :
FB360

Professional Pan/Tilt Pushrod Camera Systems

- Pan:360°Tilt:180 camera to capture maximum details
- 10" high resolution screen
- Portable 60m pushrod cable (90m/120m optional)
- Mechanical meter counter
- DVR Function (photo & video) , MIC function
- Waterproof: IP68



Cable drum

- Ø9mm fiber Glass cable
- Cable length : 60 m (90m/120m optional)
- Stainless steel, roller wheels
- Mechanical Meter counter
- Size : L770×H850×W360 mm
- Weight: 25kg



Battery

- DC 12V/4400 mAh Li-Polymer,
- Working time ≥ 4 hours
- LED battery capacity display
- Charging function, LED charge indicator
- AC90~240V 50/60Hz
- Fuse protection



Camera

- 1/3" Sony CCD sensor: 480TVL
- Focus function
- Pan: 360°Tilt: 180°
- 18 pieces high brightness LED
- Bracket size: 105mm/ 150mm/ 200mm
- 512Hz transmitter (optional)
- IP68, depth of water 10 meters work
- Diameter: Ø50mm L:120mm



Monitor

- 10" digital screen with sunshade
- Resolution : 800X 600(4:3)
- DVR & MIC function
- Storage: USB/TF card
- Re-play function
- Operating Temperature Range : 0°C ~ 60°C



Case

- ABS plastic (yellow/green/black optional)
- Case size: 511×430 ×180 mm



- Multi Function Control station (option)
- Case size: 327 x 227 x 150mm

Model :
FB20D

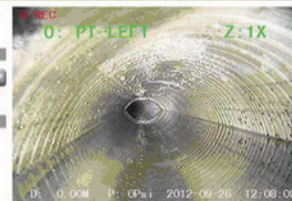
Smart Crawler Robotic Inspection System

- Suitable for pipe from DN200mm to 2000mm
- Electric lifting function
- 530TVL resolution and HD image
- Pan 360°, Tilt 270° camera to capture maximum details
- Strong composite light and watch in black situation



Application

The products are widely used in the areas of municipal pipelines, petrochemicals, tanks, shipbuilding, locomotive, engineering, casting machines, ventilation pipes, water tanks, exhaust vents, pipelines, chimneys, wells, shafts, civil engineering, electrical installation for the detection, repair and maintenance and also for the search of refugees in earthquake etc.



FB20D



Camera head

- 1/4 SONY CCD sensor; 530TVL resolution
- Pan 360°, Tilt 270° camera to capture maximum details
- Zoom 120 times (10 X optical, 12 X electronic)
- High brightness LED light and auxiliary lights
- Waterproof level: IP68



Remote control box

- Wireless control distance: 10m
- Control function:
 - Crawler: Forward, back, left, right, speed, lift
 - Camera: Zoom, Rotate, reset, Light, switching
- Power supply: Built-in Lithium battery



Rear camera head

- Optional
- 1/4 SONY CCD sensor
- 480TVL resolution
- High brightness LED light
- Waterproof level: IP68



Cable drum

- Powered by AC and DC 48V
- Meter counter
- Range the cable automatically
- Universal wheels with braking function
- Cable: 120m Kevlar cable standard, max length 220m



Crawler

- Suitable for pipe with diameter from 200 to 2000mm
- Electric lifting function
- Maximum output power: 160W
- Climbing capacity: 45°
- Creeping speed: 0-35m per min, 4-wheels drive
- Two types of wheels: DN210mm and DN130mm
- Double motors can turn left and right



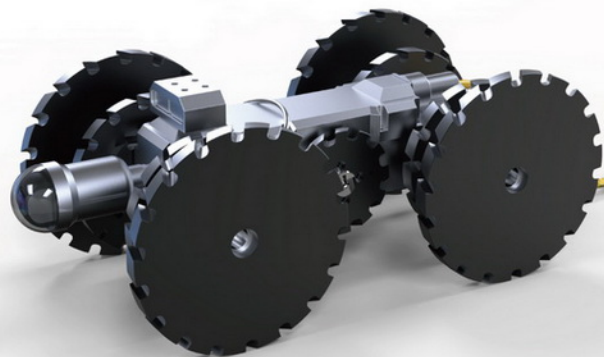
Controller

- 15inch industrial controller
- 256G hard disc
- Control software with English and Chinese OSD
- Control function: forward, back, left, right, rotate, brightness, lifting, zoom, speed
- Display: Internal pressure, creeping speed, distance, slope angle, lifting status.
- Take video and photos during inspection
- Wincam software optional

Model :
FB215

Smart Crawler Robotic Inspection System

- Suitable for pipe from DN150mm to 400mm
- 480TVL resolution
- Pan 360°, Tilt 180° camera to capture maximum details
- Strong composite light and watch in black situation



Components



C50 Camera



FB320/FB360



10inch Control Box
Size: 511×430×180mm



C360 Camera



FB215



FB215



Multi-Function Control Box
Size: 327×227×150mm



FB215



Crawler

- Suitable for pipe with diameter from 150 to 400mm
- Creeping speed: 6-20m per min,
- 6-wheels drive
- 3 types of wheels
- Double motors can turn left and right
- Waterproof level: IP68



Cable drum

- Powered by AC and DC 12V
- Meter counter
- Range the cable automatically
- Universal wheels with braking function
- Cable: 120m cable



Camera head

- 1/4 SONY CCD sensor; 480TVL resolution
- Pan 360°, Tilt 180° camera to capture maximum details
- Focus adjustable
- High brightness LED light and auxiliary lights
- Waterproof level: IP68



Controller

- 10" digital screen with sunshade
- Resolution : 800X600(4:3)
- DVR & MIC function
- Storage: USB/TF card
- Re-play function
- Operating Temperature Range 0°C ~ 60°C
- ABS plastic (yellow/ green/ black optional)
- Case size: 511×430×180 mm
- Package size : 590×510×290 mm



Control box

- Control function:
- Crawler: Forward, back, left, right, speed
- Camera: Rotate, reset, Light, focus

Model :
FB2001
FB-R2012B

Pipe Locator Receiver & Transmitter



Transmitter **FB2001**



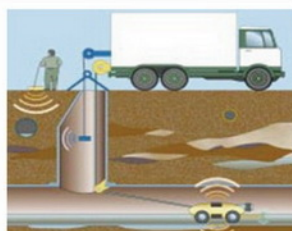
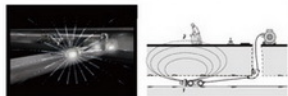
Receiver **FB-R2012B**

- Frequency : 512Hz
- Power Supply: 6xAA
- Current : <55mA
- Operation Mode : NORM/NOISE
- Sensitivity: NEAR/FAR
- Sensitivity adjustable: Continuous adjustable
- Output Intensity : LCD 15 levels
- Size : 1000 x100x100mm
- Weight : 1000g
- Operation Temperature : -10~50°C

- Operation Frequency : 512 Hz (Produced by the crystals)
- Launch Intensity : Air in the position of 8 meters can receive by receiver
- PVC Pipe in the position of 7 meters can receive by receiver
- Cast Iron Pipe in the position of 6 meters can receive by receiver
- Operation Temperature : 0--50°C
- Pressure : 5 meters water pressure
- Power supply : AAA 1.5V
- Operation Current : < 120 mA
- Overall Dimensions : Diameter 28 mm
length 76 mm
- Connection Thread : M15X1
- Weight : 60g

Application

The receiver together with the transmitter, can be used for pipe positioning. Place the transmitter in the pipe, the receiver will receive the 512hz signal, from the transmitter. Adjust the direction of the receiving antenna and the sensitivity of the receiver, which can help pipe position.



Model :
FB2003
FB-R2013A
FB-R2013E

Underground Pipe Locator

Underground pipe locator

Model: FB2003

- LCD display with backlight
- 10W broadband transmitter
- Frequency: 128, 512, 1K, 2K, 8K, 33K, 65K, 83K Hz
- Working method:
- Built-in 14.8V Li-ion battery



Underground pipe locator

Model: FB-R2013A

- 3.5 inch LCD display with backlight
- Frequency: 512, 1K, 33K, 83K Hz
- High precision of depth measurement
- High precision of currency measurement
- Built-in GPS, generate the pipeline drawing automatically
- Working depth: 6 meters
- Built-in 7.4V Li-ion battery

Underground pipe locator

Model: FB-R2013E

- 3.5 inch LCD display with backlight
- Frequency: 512, 1K, 2K, 8K, 33K, 65K, 83K Hz
- High precision of depth measurement
- High precision of currency measurement
- Built-in GPS, generate the pipeline drawing automatically
- With "A" frame for anti-corrosion coating inspection
- Working depth: 6 meters
- Built-in 7.4V Li-ion battery
- Built-in memory

Model :
FB570

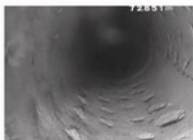
Chimney Camera



- 10" LCD display
- All-in-one control system
- DVR with USB, Micro SD storage
- Built-in battery
- Built-in keyboard
- Microphone in function
- 20m soft cable (Max length 80m)
- Pan 360 Tilt 180 camera
- IP68 waterproof
- Meter counter optional
- Work in 10 meters water

Application

Our chimney camera is widely used in inspection of all kinds of shafts such as chimney drill hole, well, borehole and so on. It could be also used in under water rescue, underwater monitor, underwater cultivation and other fields.



Model :
FB590

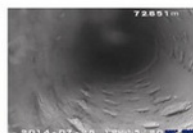
Water level Meters

- Metal probe
- Buzzer when the probe is immersed in water
- Cable with built-in tape
- Standard cable length 50m
- Length could be customized
- Accurate to millimeter
- Powered by DC9V battery
- Apply to water level detection in well, borehole, drill, water conservancy and other water projects.



Application

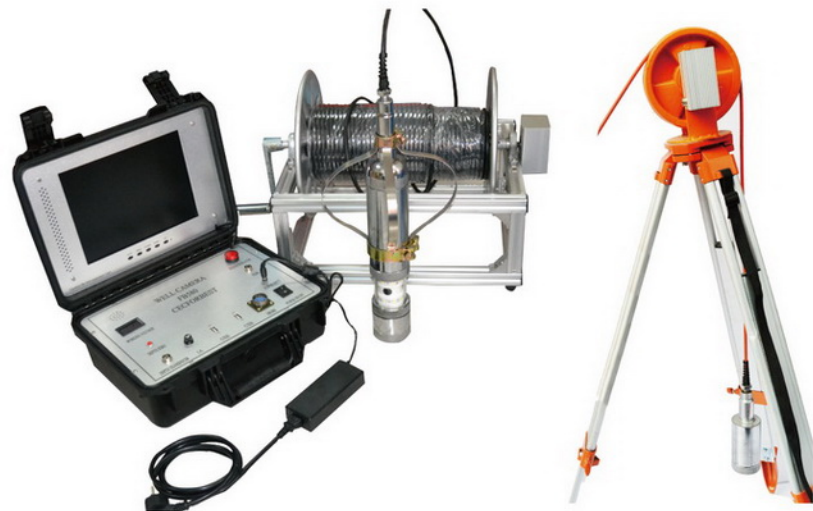
Our water level meters are widely used in the detection of water level in well, borehole, drill, shaft, and also available for water conservancy, flood control and other water projects.



Model :

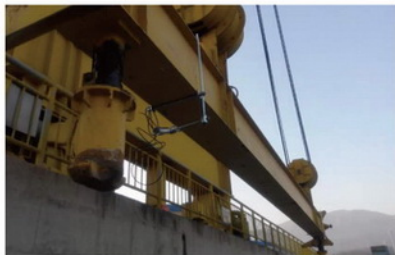
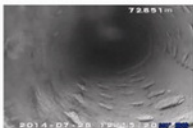
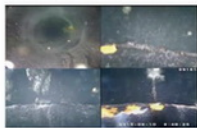
FB580-1
FB580-4

Well Camera



Application

Our well camera is widely used in inspection of all kinds of shafts such as drill hole, well, oil well, chimney and so on. It could be also used in underwater rescue, underwater monitor, underwater cultivation and other fields.



Panoramic camera

FB580-1

- Material: Chromium plated
- View angle: 170°
- Working pressure: 20-30MPa
- Working depth: 0-2000m
- Optional camera head: $\Phi 35$, $\Phi 50$, $\Phi 75$, $\Phi 80$, $\Phi 120$ mm



4-picture camera

FB580-4

- Material: Chromium plated
- View angle: Down 170°
- Working pressure: 20MPa
- Working depth: 0-1000m
- Camera head: $\Phi 80$ mm



Controller

- All in one design
- 12inch high-brightness display
- Resolution: 640*480 (Support 1024*768)
- Storage: Built-in 160G HD
- Working voltage: DC12V



Pulley assembly

- Material: Stainless steel
- Digital meter counter
Range: 0~999.99m
Accuracy: 0.01m
- Mechanical meter counter
Range: 0~9999.9m



Winch

- Stainless steel
- Electrical winch optional
- Standard length 300m
- 100m to 2000m optional

Model :
FB5V2

Manhole Camera

- 1/4" Sony CCD camera
- 700 TVL, 0.01 LUX
- 30 times optical zoom
- Auto tilt
- 3.7V rechargeable battery
- USB interface
- 8G micro SD card
- High brightness LED light
- Telescopic rod: max 7m, min 1.2m
- Text input function optional
- Laser range finder option
- IP68 waterproof



Application

Manhole camera is designed for the fast inspection and diagnosis of industrial tanks, vessels and sewer pipes. Ideal for pipes from 200mm to 2000mm diameter.



Model :
FB536

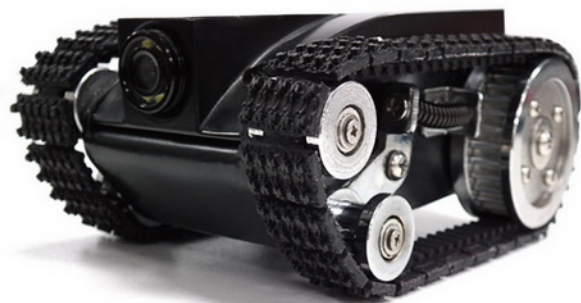
Manhole Camera

- 1/4" Sony CCD camera
- 700 TVL, 0.7 LUX
- 36 times optical zoom
- Auto tilt
- 3.7V rechargeable battery
- USB interface
- 8G micro SD card
- High brightness main and auxiliary LED lights
- Telescopic rod: max 7m, min 1.2m
- Text input function
- Laser range finder option
- IP68 waterproof



Model :
FB402

Air Duct Inspection Robot



Crawler

- Double Caterpillar drive
- Directions: Forward, back, turn right, left
- Speed: 0 to 12m per minute
- Obstacle crossing capacity: 45mm
- Climbing angle: 40 degree
- Working voltage: 24V DC, 75W
- Dimension: 145 (L) x 100 (W) x 68 (H) mm
- Weight: 1.5kg

Camera

- 520 TVL color camera
- High brightness LED lights
- Pan 360 ,Tilt180 Camera optional

Cable

- Standard length 20m
- Customized, max length 50m

Control Box

- 7" 16:9 display
- 500G hard disk
- Monitoring and recording function
- Storage format: MP4, JPEG
- Power supply: 220V AC
- Dimension: 350 (L) x 170 (W) x 200 (H) mm

Application



Model :
FB403

Air Duct Cleaning Robot



Crawler

- Four-wheels drive
- Directions: Forward, back, turn right, left
- Speed: 0 to 12m per minute
- Obstacle crossing capacity: 45mm
- Climbing angle: 40 degree
- Working voltage: 24V DC, 235W
- Application pipe: Height 180 to 600mm, DN500mm
- Brush control: Electrical lifting
- Dimension: 480 (L) x 380 (W) x 160 (H) mm
- Weight: 13.5kgs

Camera

- 420 TVL color camera
- High brightness LED lights

Cable

- Standard length 20m
- Customized, max length 100m

Control Box

- 10.4" 4:3 display
- 500G hard disk
- Monitoring and recording function
- Storage format: MP4, JPEG
- Power supply: 220V AC
- Dimension: 470 (L) x 370 (W) x 200 (H) mm



Size: 350(L)x170(W)x100(H)mm



Size: 850(L)x380(W)x730(H)mm

Model :
FB120
FB140

Industrial Endoscope



- Monitor: 4.3" TFT LCD
- Probe cable length: 2m/3m/5m
- Camera lens diameter: 5.5mm
- Sensor: 1/12.5" CMOS VGA
- Color sensor pixels: 450000pixels
- Zoom function: 4 times
- 2-way to bend (FB120)
- 4-way to bend (FB140)

- Video format: AVI/MPEG4
- Picture format: Jpg, JPEG
- SD card: 8GB (Max: 32G)
- Oil/Waterproof standard: IP67
- Built-in Li-battery: 3.7V, 3000mAh, last 4 hours
- Camera size: 3.9mm/8.5mm optional (FB120)
- Camera size: 2.8mm/3.9mm/8.5mm optional (FB140)

Application



Model :
FB150

Industrial Endoscope



- Highlight 3.5" active matrix color liquid crystal display
- 12V, 4-hour battery
- Alloy shell drop resistance
- 2m, 3m optional
- Full 360° to the bend
- Follow joystick automatically reset
- 8G high speed SD card
- USB2.0 port
- TV out video signal output connector
- Promise brightness adjustment
- High power LED lighting, fiber optic light guide
- Super 20000lx
- Auto White Balance

Application

